SAFETY DATA SHEET

RC Cresyl

Conforms to Regulation (UE) 830/2015

Section 1: Chemical Product and Company Identification

1.1. Product identifier
Commercial name: **RC Cresyl**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Disinfectant for all surfaces except food
Sectors of use: Use of the consumer [SU21], Professional uses [SU22]
Process categories: Handling low power consumption of substances bound in materials and / or articles [PROC21]
Advised against: Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet Manufacturer

Rwanda Chemicals Ltd
(Kigali-Rwanda)

1.4 Emergency telephone number

Poison Control

+250 788 384 877 (King Faisal Hospital)

Section 2: Composition and Information on Ingredients

2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 12f2/2008:

Pictograms:
GHS05, GHS07, GHS09

Class Codes and hazard category:
Skin Irrit. 2, Skin Sens. 1, Eye Dam. 1, Aquatic Chronic 2

Codes of hazard statements:
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H411 - Toxic to aquatic life with long lasting effects

The product, if brought into contact with the skin it causes significant inflammation with erythema, scabs, and edema.
The product, if brought into contact with the skin may cause skin sensitization.
The product, if brought into contact with the eyes, it causes serious damage, such as opacity of the cornea or iris lesions.
The product is dangerous for the environment as it is toxic to aquatic life with long lasting effects.

2.2. Label elements

Labeling according to Regulation (EC) No 1272/2008 [CLP/GHS]:

Pictograms, warning codes: GHS05, GHS07, GHS09

Signal word: DANGER

Hazard statements:

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements:

Prevention

P261 - Rvoid breathing vapors.

P273 - Rvoid release to the environment.

P280 - Wear protective gloves / protective clothing / eye protection / face protection.

Reaction

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if easy to do.

Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor

P333 + P313 - If skin irritation or rash occurs: Get medical advice.

P363 - Wash contaminated clothing before reuse.

P391 - Collect spillage.

Disposal

P501 - Dispose of contents / container in accordance with local / regional / national / international regulations

Contains:

4-chloro-3-methylphenol, 2-benzyl-4-chlorophenol, p-Menthenol (mixed isomers), (R) -p-mentha-1,8-diene, cresol mixture of isomers, xylenol, 2-methyl-2 , 4-pentanediol, sodium hydroxide

REGULATION (EU) No. 528/2012, contains biocides: 4-chloro-3-methylphenol - Disinfectants and algaecides not intended for direct application to humans or animals; 2-benzyl-4-chlorophenol - Disinfectants and algaecides not intended for direct application to humans or animals;

2.3. Other hazards

The substance / mixture does not contain PBT / vPvB substances in accordance with Regulation (EC) No. 1907/2006, Annex XIII
The product must be used in accordance with the National safety laws.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

See item 16 for the full text of the H statements

Substance	Concentration	Classification	Index	CAS	EINECS	Reach
4-chloro-methylphenol	> 5 <= 10 %	H302, H312, H317, H318, H400	604-014-00-3	59-50-7	200-431-6	
sulph.castor oil	> 5 <= 10 %	H319		68187-76-8	269-123-7	01-2-19943-732-36
2-benzyl-4-chlorophenol	> 1 <= 5 %	H315, H317, H318, H332, H373, H400, H410		120-32-1	204-385-8	
2-methyl-2,4-pentanediol	> 0,1 <= 1 %	H315, H319	603-053-00-3	107-41-5	203-489-0	01-2119539-582-35
cresol mixture of isomers	> 0,1 <= 1 %	H301, H311, H314	604-004-00-9	1319-77-3	215-293-2	
Sodium hydroxide	>= 0,1 <= 1 %	H314	011-002-00-6	1310-73-2	215-183-5	01-21194578-92-27
Xylenol	> 0,1 <= 1 %	H301, H311, H314, H411	604-006-00-X	1300-71-6	215-089-3	
p-Menthenol (mixed isomers)	< = 0,1 %	H315, H319		8000-41-7	232-268-1	
(R)-p-mentha-1,8-diene	< = 0,1 %	H226, H315, H317, H400, H410	601-029-00-7	5989-27-5	227-813-5	

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Ventilate the area. Immediately remove the patient from the contaminated area and keep it at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with the skin (of the pure product):

Immediately take off contaminated clothing.

Wash immediately with plenty of running water and possibly with soap areas of the body that have come in contact with the product, even if only suspected.

Direct contact with the eyes (of the pure product):

wash immediately and thoroughly with running water, with eyelids open, for at least 10 minutes; then protect eyes with dry sterile gauze. Seek medical advice immediately. Do not use eye drops or ointment of any kind before obtaining an examination or advice.

Ingestion:

Not dangerous. It's possible to give activated charcoal in water or medicinal mineral vaseline oil.

4.2. Most important symptoms and effects, both acute and delayed

No data available.

4.3. Indication of any immediate medical attention and special treatment

In case of skin irritation seek medical advice. Immediately call a POISON CENTER or doctor

SECTION 5: Firefighting measures

5.1. Extinguishing

Recommended extinguishing media:
Water spray, CO2, foam, chemical powders depending on the materials involved.
Extinguishing media to be avoided:
Use water jets only to cool the surfaces of containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the respiratory tract. Safety helmet and full protective suit.
The water spray can be used to protect the people involved in the extinction
It is also advisable to use breathing apparatus, especially, if it operates in closed places and poorly ventilated and in any case if you use halogenated extinguishing (fluobrene, Solkane 123, naphthyl etc.). Cool containers with water jets.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and procedures in case of emergency

6.1.1 For non-emergency personnel:
Move away from the area surrounding the spill or release. Not smoking. Use a mask, gloves and protective clothing.

6.1.2 For emergency responders:

Use a mask, gloves and protective clothing.
Eliminate all unguarded flames and possible sources of ignition.
Not smoking. Provide adequate ventilation.
Evacuate the danger area and, if necessary, consult an expert.

6.2. Environmental precautions

Limit leakages with earth or sand.
If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.
Dispose of waste in compliance with current regulations.

6.3. Methods and materials for containment and cleaning up

6.3.1 For the containment:

Collect the product quickly wearing mask and protective clothing.
Recover the product for re-use if possible, or for elimination. Eventually absorb it with inert material. Prevent it from entering the sewer system.

6.3.2 To clean:
To clean the floor and all objects contaminated by this material use water Rfter collection, wash the area with water and materials involved.

6.3.3 Other information:
None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Rvoid contact and inhalation of vapors.
Wear protective gloves / protective clothing / eye protection / face protection. In the living areas do not use on large surfaces. Rt work do not eat or drink.

Contaminated work clothing should not be allowed out of the workplace. See also paragraph 8.

7.2. Conditions for safe storage, including any incompatibilities

Keep in the original container tightly closed. Do not store in open or unlabeled containers. Keep the containers in an upright position and secure, avoiding the possibility of falls or collisions. Store in a cool place, away from any heat source and dall`esposizione direct sunlight.

7.3. Specific end use

Use of the consumer:

Handle with care.
Store in ventilated area and away from heat sources, keep the container tightly closed.

Professional uses:

Handle with care.
Store in ventilated area and away from heat sources, keep the container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Related contained substances:

4-chloro-3-methylphenol:
MAK: IIb (not established but data for sensitization of skin (Sh) are available); (DFG 2005).

2-methyl-2,4-pentanediol:

TLV: 25 ppm 121 mg/m³ (Ceiling value) (ACGIH 2003).
MRK: 10 ppm 49 mg/m³ Peak limitation category: I (2) Risk group for pregnancy: D (DFG 2006).

Cresol mixture of isomers:

TLV: 5 ppm; (Rs TWR) mg/m³ (skin) (ACGIH 2000). MRK: class H, 3 (1999)

Sodium hydroxide:

TLV: 2 mg/m³ (Ceiling value) (RCGIH 2004). (R)

P-mentha-1,8-diene:

MRK: 20 ppm 110 mg / m³ sensitization of skin (Sh); Peak limitation category: II (2); Pregnancy risk group: C; (DFG 2005).

Substance: Sodium hydroxide

DNEL

- Long-term systemic effects Inhalation Workers = 2.5 (mg/m3)
- Long-term systemic effects Consumers Inhalation = 1.5 (mg/m3)
- Systemic effects Short term Consumers Inhalation = 1.5 (mg/m3)
- Systemic effects Short term Consumers Oral = 25 (mg/kg bw/day)
- Long term Workers local effects Inhalation = 2.5

PNEC

- Fresh water = 2.2 (mg/l)
- Sea water = 0.22 (mg/l)
- Intermittent Emissions = 1.2 (mg/l)
- STP = 43 (mg/l)
- Soil = 0.72 (mg/kg soil)

Use of the consumer [SU21] - Handling with low power consumption of substances bound in materials and / or articles [PROC21]:

Durations of exposure per day 8h
Frequency of use 5 days/week
Use frequency 200 days/year
Technical conditions and measures to control dispersion from source of workers: Consumers use products already diluted and can be neutralized quickly in the waste water treatment stations, before even arriving in the surface water treatment facilities
Conditions and measures related to personal protection, hygiene and health evaluation: For consumers, the solid products as those containing liquid NaOH in concentrations> 2%:

- Respiratory protection: in case of formation of dust and aerosols (for example the spray) is used for the protection of the respiratory tract with approved filter (P2)
- Hand protection: gloves resistant to chemical action
- if it is possible to be produced spraying / splashing, wear safety goggles resistant to chemicals, fixed on the face or protective mask

Other operational conditions affecting workers in the work: Acute / short term exposure was only assessed for the most critical use: the use of NaOH for cleaning the ovens. For the estimation of exposure were used ConsExpo and SprayExpo.

Short-term exposure calculated, from 0.3 to 1.6 mg/cm3 is a bit larger than the DNEL.

Long-term for the inhalation of 1 mg/m³, but less than the occupational exposure limit in the short term - 2 mg/cm³. In addition, NaOH will be rapidly neutralized by reaction with the C02 (or other acids).

8.2. exposure controls

Individual protection measures:

Protection for eyes / face:
When handling the pure product wear safety goggles (splash goggles) (EN 166).

Skin protection:

Hand protection
When handling the pure product use protective gloves resistant to chemicals (EN 374-1 / EN374-2 / EN374-3)
Other
When handling the pure product wear full protection to the skin.

Respiratory protection:

Not needed for normal use.

Thermal hazards:
No danger to report

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Test Method
Appearence	Liquid amber	
Smell	Phenolic	
Odor threshold	not determined	
pH	9	
Melting point / freezing point	not determined	
Initial boiling point and boiling range	not determined	
Flash point	not determined	
Evaporation rate	irrilevant	
Flammability (solid, gas)	irrilevant	
Upper / down flammability or explosive	not determined	
Vapor pressure	not determined	
Vapor density	not determined	
Relative density	1	
Solubility	in water	
Water solubility	total	
Partition coefficient: n-octanol/water	not determined	
Ignition temperature	not determined	
Decomposition temperature	not determined	
Viscosity	not determined	
Explosive properties	not explosive	
Oxidising properties	non-oxidizing	

9.2. Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No reactivity hazards

10.2 Chemical stability

No dangerous reaction if used as directed.

10.3. Possibility of hazardous reactions

There are no hazardous reactions

10.4. Conditions to avoid

None to report

10.5. incompatible materials

It may generate flammable gases on contact with elementary metals, nitrides, inorganic sulfides, strong reducing agents. It may generate toxic gases on contact with inorganic sulfides, strong reducing agents.

10.6. Hazardous decomposition products

It does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

ATE (mix) oral = 7319.1 mg / kg
ATE (mix) dermal = 9412.4 mg / kg
ATE (mix) inhal = 288.7 mg / l / 4 h

(A) acute toxicity: Based on available data the classification criteria are not met

(B) corrosion / irritation: The product, if brought into contact with the skin it causes si gnificant inflammation with erythema, scabs, and edema.

(C) serious eye irritation / injury: If the product is brought into contact with the eyes, it causes serious damage, such as opacity of the cornea or iris lesions.

(D) respiratory sensitization, or the skin: The product, if brought into contact with the skin may cause skin sensitization.

(E) germ cell mutagenicity: Based on the criteria for classification data available are not satisfied

(F) carcinogenicity: Based on the criteria for classification data available are not satisfied

(G) reproductive toxicity: based on the criteria available data classification are not met

(H) specific target organ toxicity (STOT) single exposure: on the basis of available data, the classification criteria are not met

(I) specific target organ toxicity (STOT) Repeated exposure: on the basis of available data, the classification criteria are not met

(J) aspiration hazard: on the basis of available data, the classification criteria are not satisfied

Related contained substances:

4-chloro-3-methylphenol:

ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation and through the skin and by ingestion

INHALATION RISK: Evaporation at 20 ° C is negligible; a harmful concentration of airborne particles can, however, be reached quickly.

EFFECTS OF SHORT-TERM EXPOSURE: The substance irritating to the eyes, the skin and the respiratory tract

EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: Repeated or prolonged contact may cause skin sensitization.

ACUTE HAZARDS / SYMPTOMS

Inhalation; Cough. Sore throat. See Ingestion.

Skin: Redness. Ache.

Eyes: Redness. Ache. Severe deep burns.

Ingestion: Headache. Vertigo. Shortness of breath. Abdominal pain. Diarrhea.

Oral LD50 (rat) (mg / kg body weight) = 1830

2-methyl-2,4-pentanediol:

ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation of its aerosol.

INHALATION RISK: a harmful contamination of the air will not be reached or will only very slowly on evaporation of this substance at 20 ° C

EFFECTS OF SHORT-TERM EXPOSURE: The substance 'irritating to the eyes, the skin and the respiratory tract

EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: Repeated or prolonged contact with skin may cause dermatitis.

ACUTE HAZARDS / SYMPTOMS Inhalation Sore throat. Cough.
SKIN Dry skin. Redness. Eyes Redness. Ache.
The occupational exposure limit value should not be exceeded during any part of the working exposure.

Cresol mixture of isomers:

ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation, through the skin and by ingestion.
INHALATION RISK: a harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20 ° C.
EFFECTS OF SHORT-TERM EXPOSURE: The substance and corrosive to the eyes, the skin and the respiratory tract. Corrosive on ingestion. Inhalation of vapor or aerosol may cause lung edema (see Notes). The substance may cause effects on the central nervous system cardiovascular system lungs kidneys liver, resulting in depression of the central nervous system, respiratory failure tissue lesions Exposure at high levels may result in lowering the death watch
EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: Repeated or prolonged contact with skin may cause dermatitis. The substance may have effects on the cardiovascular system, central nervous system
ACUTE HAZARDS / SYMPTOMS Burning sensation. Sore throat. Cough. Headache. Nausea. He retched. Difficulty breathing. Shortness of breath. Symptoms may be delayed (see Notes).
SKIN: Redness. Rche. Blisters. skin burns. Eyes Redness. Rche. Severe deep burns.
INGESTION: Nausea. He retched. Rbdominal pain. Burning sensation. Shock or collapse.
NOTE: symptoms of lung edema often do not become manifest until a few h ours and they are aggravated by physical effort. They are therefore essential the rest and medical observation. You must Immediate administr ation of an appropriate inhalation therapy by a doctor or staff he / she authorized.

Sodium hydroxide:
ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.
INHALATION RISK: Evaporation at 20 ° C is negligible; a harmful concentration of airborne particles can, however, be reached quickly.
EFFECTS OF SHORT-TERM EXPOSURE: Corrosive. The substance 'very corrosive to the eyes, the skin and the respiratory tract. Corrosive on ingestion. Inhalation of the substance may cause lung edema (see Notes).
EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: Repeated or prolonged contact with skin may cause dermatitis
ACUTE HAZARDS / SYMPTOMS: Inhalation Corrosive. Burning sensation. Sore throat. Cough.
Difficulty breathing. Shortness of breath. Symptoms may be delayed (see Notes).
SKIN: Corrosive. Redness. Ache. Severe skin burns. Blisters.
EYES: Corrosive. Redness. Rche. Blurred vision. Severe deep burns.
INGESTION: Corrosive. Burning sensation. Rbdominal pain. Shock or collapse.
The occupational exposure limit value should not be exceeded during any part of the working exposure. The symptoms of lung edema often do not become manifest until a few hours and they are aggravated by physical effort. They are therefore essential the rest and medical observation.

xylenol:
ROUTES OF EXPOSURE: The substance can be absorbed into the body by inhalation, by ingestion and through the skin.
INHALATION RISK: It can not be provided any indication about the speed with which it reaches a harmful contamination evaporation of this substance at 20 ° C.
EFFECTS OF SHORT-TERM EXPOSURE: The substance and 'corrosive to the skin, the respiratory tract. and the eyes.
Corrosive on ingestion. Inhalation of an aerosol of this substance may cause lung edema (see Notes).

EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: Repeated or prolonged contact may cause skin sensitization.

ACUTE HAZARDS / SYMPTOMS: Burning sensation. Cough. Sore throat. Shortness of breath. See notes. SKIN Redness.

Ache. Skin burns. Eyes Redness. Ache. Severe deep burns.

INGESTION: Burning sensation. Abdominal pain. Nausea. He retched. Shock or collapse.

NOTE: symptoms of lung edema often do not become manifest until a few hours and they are aggravated by physical effort. They are therefore essential the rest and medical observation. It must Immediate administration of an appropriate spray, by a doctor or a person by him / her authorized.

(R) -p-mentha-1,8-diene:

INHALATION RISK: It can not be provided any indication about the speed with which it reaches a harmful contamination evaporation of this substance at 20 °C.
EFFECTS OF SHORT-TERM EXPOSURE: The substance and 'irritating to the skin and' mildly irritating to the eyes
EFFECTS OF LONG-TERM OR REPERTED EXPOSURE: Repeated or prolonged contact may cause skin sensitization

ACUTE HAZARDS / SYMPTOMS SKIN Redness. Rche. Redness

SECTION 12: Ecological information

12.1. Toxicity

Related
contained
substances:
4-chloro-3-
methylphen
ol:
The substance is toxic to aquatic organisms. Can Bioaccumulation of this chemical in fish.
Cresol mixture of isomers:
The substance is toxic to aquatic organisms.

Sodium hydroxide:
This substance may be hazardous to the environment; special attention should be given to aquatic organisms ..Adopt good working practices, avoiding disposal in the environment.
LC100 Fish Leuciscus idus melanotus 213 mg / L 48h ,, Juhnke et al. (1978), Z Wasser Rbwasser Forsch, 11, 161-164
LC50 Fish Leuciscus idus melanotus189 mg / L 48h ,, Juhnke et al. (1978), Z Wasser Rbwasser Forsch, 11, 161-164 xylenol:

The substance is toxic to aquatic organisms. Can Bioaccumulation of this chemical in fish.

(R) -p-mentha-1,8-diene:

The substance is very toxic to aquatic organisms. Can Bioaccumulation of this chemical in fish.

The product is dangerous for the environment as toxic to aquatic organisms following acute exposure.
Adopt good working practices, avoiding disposal in the environment.

Release categories:

sodium hydroxide

Use of the consumer [SU21] - Handling with low power consumption of substances bound in materials and / or articles [PROC21]: [ERC11a]

12.2. Persistence and degradability

No data available.

12.3. Potential bioaccumulation

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB

The substance / mixture does NOT contain pursuant to Regulation PBT / vPvB (EC) No. 190f/2006, Rnnex ZIII

12.6. Other adverse effects

No adverse effects are found

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Do not reuse empty containers. Dispose of in compliance with current regulations. Rny remaining product should be disposed of according to current regulations addressing to authorized companies.

Recycle if possible. Send to authorized disposal plants or for incineration under controlled conditions. Operate according to local and national regulations.

SECTION 14: Transport information

14.1. UN Number

ADR / RID / IMDG / ICAO-IRTR: 3082

Possible ADR exemption if it met the following characteristics:

Combined packaging: Inner packing 5 L neck 30 Kg
Arranged interior packaging trays with shrink or extensible film: internal packing 5 L 20 Kg neck

14.2. proper shipping name

ADR / RID / IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS (4-chloro-3-methylphenol, (R)-p-mentha-1,8-diene, cresol mixture of isomers, xylenol, sodium hydroxide)

ICAO-IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS (4-chloro-3-methylphenol, (R) -p-mentha-1,8-diene, mix-cresol, xylenol, sodium hydroxide)

14.3. of Transport hazard classes

ADR / RID / IMDG / ICAO-IRTR: Class: 9
ADR / RID / IMDG / ICAO-IRTR: Label: 9
ADR + Environment: Tunnel restriction code:
E ADR / RID / IMDG / ICAO-IATA: Limited
quantity: 5 L IMDG - Ems: FA, SF

14.4. Packing group

ADR / RID / IMDG / ICAO-IATA: III

14.5. Environmental hazards

ADR / RID / ICAO-IATA: Dangerous product for the environment
IMDG: marine contaminant: Yes

14.6. Special precautions for user

The goods must be transported by vehicles authorized to the carriage of dangerous goods under current provisions of the RDR and the applicable national regulations.
The transport must be made in the original packaging and, anyway, in packagings made of materials resistant to their content and not likely to generate dangerous reactions. People loading and the unloading of dangerous goods must be trained on the risks associated with the preparation and the actions that must be taken in case of emergency situations

14.7. Transport in bulk according to Annex II of MARPOL 73I78 and the IBC Code

It is not intended to carry bulk

SECTION 15: Regulatory information

15.1. Laws and regulations on health, safety and specific for the substance or mixture

D.Lgs. 81/08 Italy (Occupational exposure limits) and other comunitary safety laws
DM 03/04/2007 (Implementation of Directive no. 2006/8/EC)
Regulation (EC) No. 1907/2006 (RERCH)
Regulation (EC) No. 1272/2008 (CLP)
Regulation (EC) No. 830/2015
D.Lgs. 105/2015 (Seveso Directive Ter)

15.2. Chemical Safety Assessment

The supplier has carried out a chemical safety assessment

SECTION 16: Other information

16.1. Other information

Description of danger signs set out in paragraph 3:
H302 = Harmful if swallowed.
H312 = Harmful in contact with skin.
H317 = May cause an allergic skin reaction.
H318 = Causes serious eye damage
H400 = Very toxic to aquatic organisms.
H319 = Causes serious eye irritation.
H315 = Causes skin irritation
H332 = Harmful if inhaled.
H373 = May cause damage to organs through prolonged or repeated exposure.
H410 = Very toxic to aquatic life with long lasting effects.
H301 = Harmful if swallowed.
H311 = Toxic in contact with skin.
H314 = Causes severe skin burns and eye damage.
H411 = Toxic to aquatic life with long lasting effects.

H226 = Flammable liquid and vapor.

Classification carried out based on the data of all the components of

the mixture GENERAL BIBLIOGRAPHY

- Regulation (EC) 190f/2006 of the European Parliament (RERCH)
- Regulation (EC) 12f2/2008 of the European Parliament (CLP) and subsequent updates
- Regulation (EC) f58/2013 of the European Parliament
- Regulation (EC) 2015/830 of the European Parliament
- Regulation (EC) 528/2012 of the European Parliament and subsequent updates
- Regulation (EC) 648/2004 of the European Parliament and subsequent updates
- The Merck Index
- Handling Chemical Safety
- Niosh - Registry of Toxic Effects of Chemical Substances
- INRS - Fiche Toxicologique
- Patty - Industrial Hygiene and Toxicology
- NI Sax - Dangerous properties of Industrial Materials-f Ed., 1989

Note for users:
The information in this sheet are based on our own knowledge on the date of the last version.
Users must verify the suitability and thoroughness of provided information according to each specific use of the product. It should not be construed as a guarantee on any specific product property. The use of this product is not subject to our direct control, users must, under their own responsibility the laws and regulations on hygiene and safety. They accept no liability for improper use. This card replaces and cancels all previous